



Latvian Geospatial
Information Agency

Latvian Geospatial information agency report

**EUREF 2018 symposium session 5- Amsterdam, Netherland end of May
2018**

*Head of Geodesy division
Ivars Liepiņš*


Benchmark inspection in Riga and Vidzeme region 2017



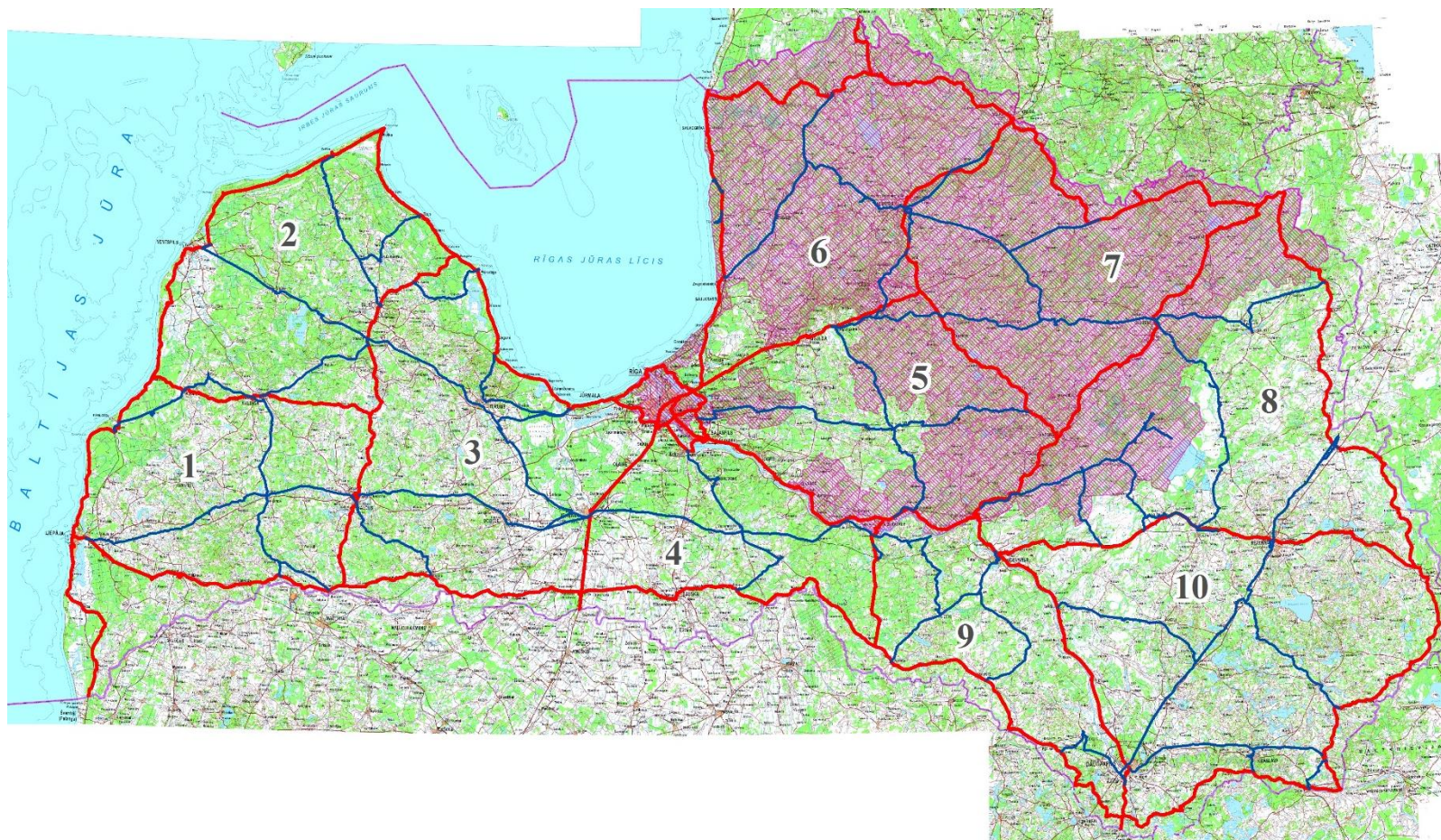
Latvian Geospatial
Information Agency

Inspected 991 benchmarks:

- 671 benchmarks of 1st order levelling network
- 145 benchmarks of 2nd order levelling network
- 175 benchmarks of 1st and 2nd order GP network

 1st order levelling line

 2nd order levelling line





Ground benchmark before inspection





Ground benchmark before inspection

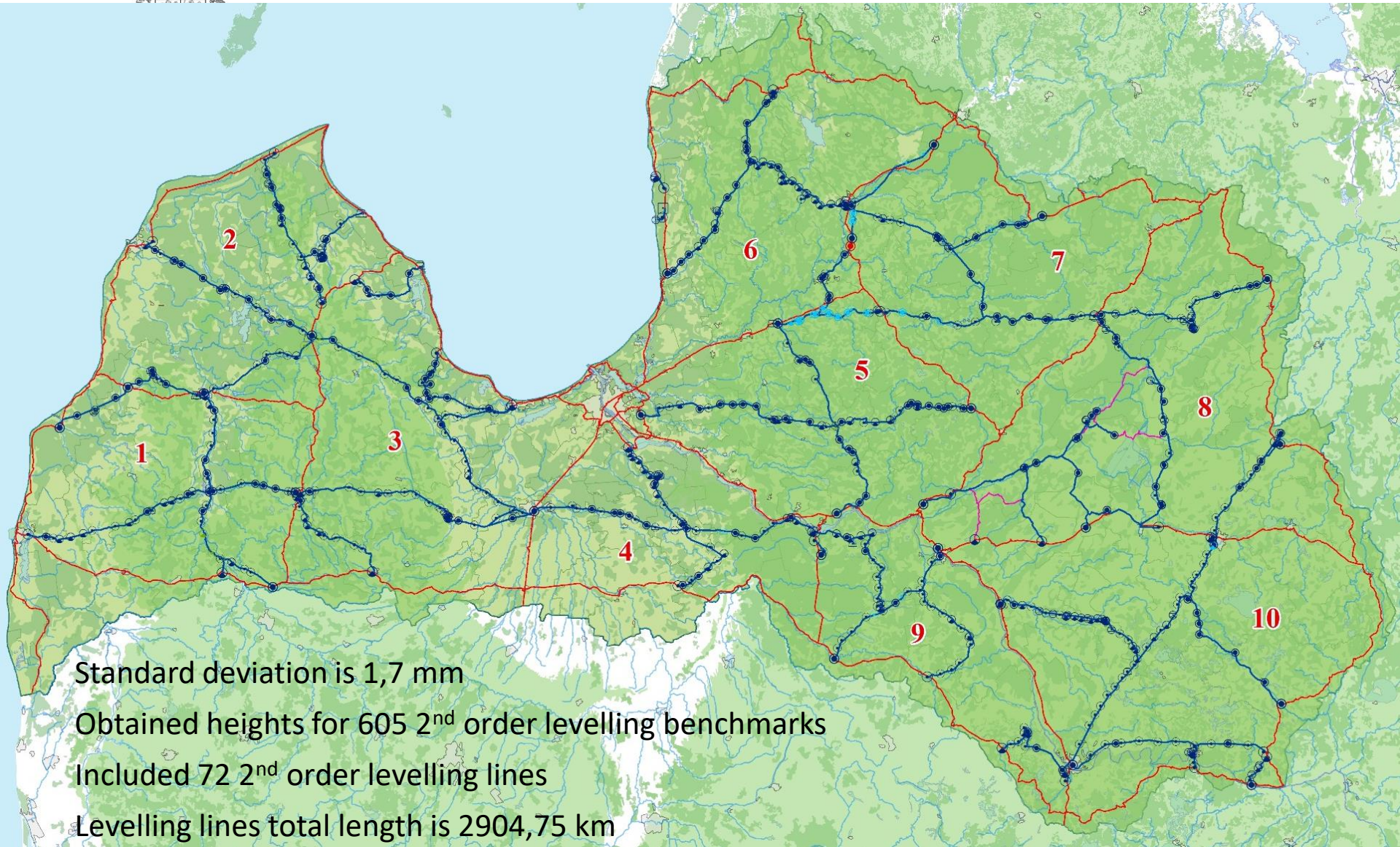




Ground benchmark after inspection



2nd order levelling network of Latvia



Standard deviation is 1,7 mm

Obtained heights for 605 2nd order levelling benchmarks

Included 72 2nd order levelling lines

Levelling lines total length is 2904,75 km

Based on 72 1st order levelling benchmarks



Standard deviation

Obtained heights

Included 72 2nd or

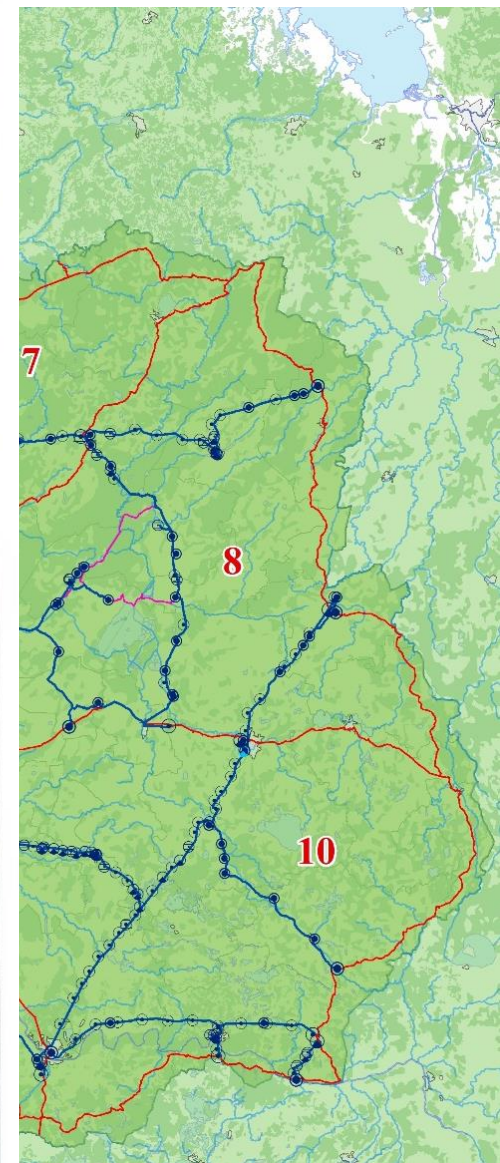
Levelling lines total

Based on 72 1st or

PĀRSKATS

Latvijas 2. klases nivelēšanas tīkla
pilnveidošana

.atvia



New national GNSS reference stations



Latvian Geospatial
Information Agency



GNSS station Vainode



Latvian Geospatial
Information Agency

Irbene

EPN

Vainode

EPN in progress





Latvian Geospatial
Information Agency

GNSS station Aluksne





Latvian Geospatial
Information Agency

GNSS station Aluksne





Latvian Geospatial
Information Agency

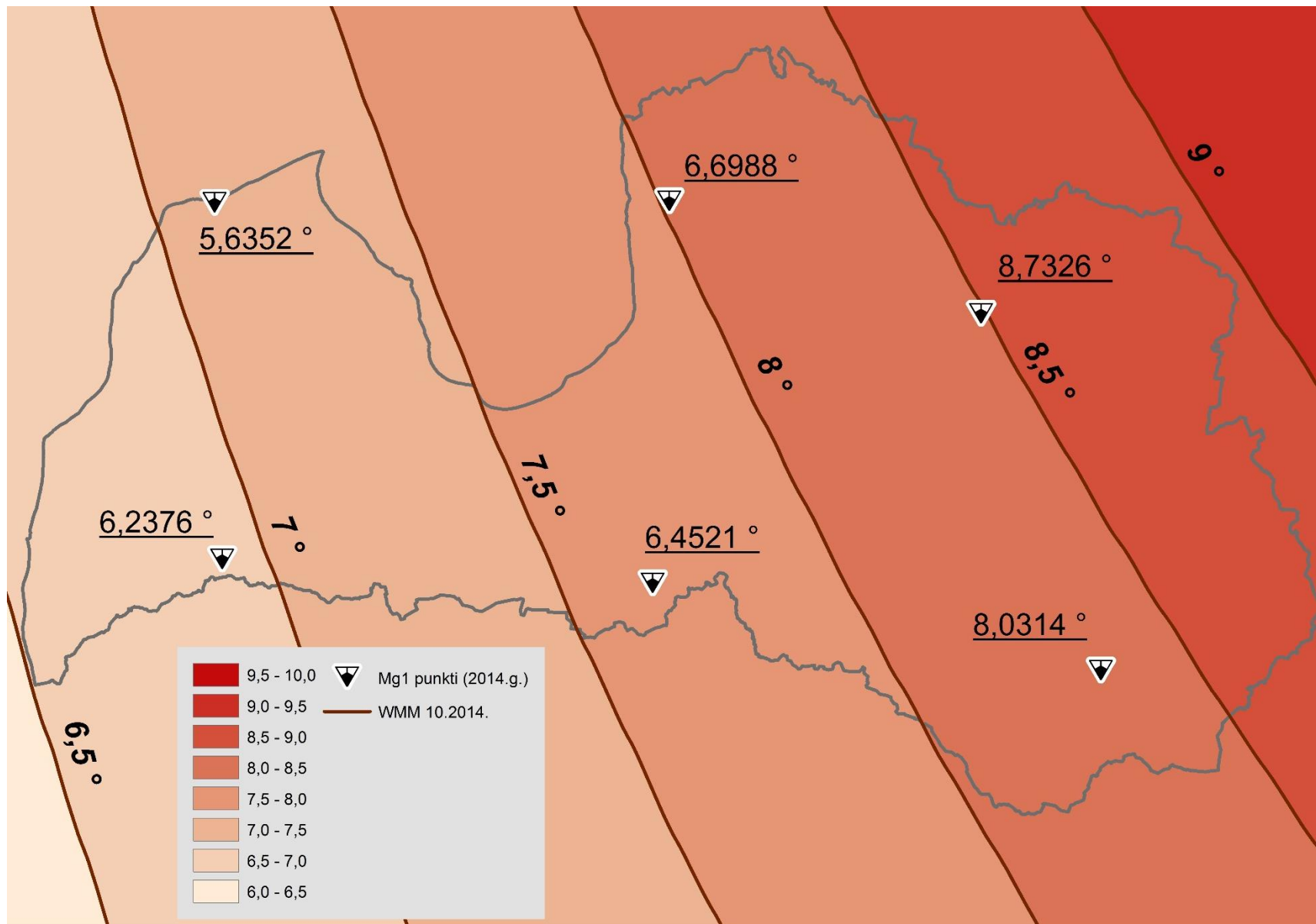
Geomagnetic field measurements



Mg1 point “Ozolaine”



Comparing field measurements vs WMM (2)





















Latvian Geospatial
Information Agency

Thank you for your attention!